

10/506471

DT05 Rec'd PCT/PTO 03 SEP 2004

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Arthur Marshall STONEHAM et al. : **Mail Stop: PCT**
Serial No. NEW : Attorney Docket No. 2004_1367A
Filed September 3, 2004 :
A GATE FOR INFORMATION PROCESSING : THE COMMISSIONER IS AUTHORIZED
[Corresponding to PCT/GB03/00896 : TO CHARGE ANY DEFICIENCY IN THE
Filed March 3, 2003] : FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☐ each U.S. Patent and U.S. Patent application publication (*for U.S. National applications filed after June 30, 2003 and International applications that have entered U.S. National Stage after June 30, 2003*),
- ☐ each reference previously cited in the international application PCT/_____; and/or
- ☐ each reference previously cited in prior parent application Serial No. _____.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

ATTACHMENT "C" }

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Arthur Marshall STONEHAM et al.

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September 3, 2004

FORM PTO 1449 (modified)

ATTY DOCKET NO.
2004_1367ASERIAL NO.
NEW

10/506471

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)APPLICANT
Arthur Marshall STONEHAM et al.

Date Submitted to PTO: September 3, 2004

FILING DATE
September 3, 2004

GROUP

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|--------------------|------|------|-------|----------|-------------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
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FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
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| | AJ | 00/30255 | 5/2000 | WO | | | |
| | AK | | | | | | |
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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| AO | Kane, B.E., entitled " <u>Silicon-based Quantum Computation</u> ", FORTSCHRITTE DE PHYSIK 2000, [Online], vol. 48, no. 9-11, 2000, pages 1023-1041, XP002902896. |
| AP | Loss, D., et al., entitled " <u>Quantum Computation with Quantum Dots</u> ", Physical Review, A. (Atomic, Molecular and Optical Physics) American Institute of Physics. New York, US, vol. 57, no. 1, January 1998, page 120-126, XP000907148. |
| AQ | Nilsson, M., et al., entitled " <u>Initial Experiments Concerning Quantum Information Processing in Rare-earth-ion Doped Crystals</u> ", Proceedings of the Nobel Jubilee Symposium: Condensation and Coherence in Condensed Matter, [Online] vol. 102, 4 December 2001, 7 December 2001, pages 178-185, XP002902897. |

EXAMINER

DATE CONSIDERED